



PATENT


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Roy Schoenberg ✓  
Serial No: 10/726,952 ✓  
Filing Date: December 3, 2003 ✓  
Title: KEY MAINTENANCE METHOD AND SYSTEM ✓  
Docket No: 57581-037 (SHOL-123) ✓

CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail under 37 CFR 1.8(a) in an envelope addressed to Mail Stop DD, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Date: 2/3/04

  
Jin Zhang

Mail Stop DD  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

TRANSMITTAL LETTER

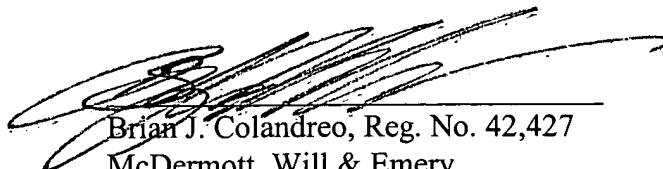
Applicant encloses herewith for filing in connection with the above-referenced patent application the following documents:

- 1) Information Disclosure Statement;
- 2) Form 1449;
- 3) Cited references (without U.S. Patents and Patent Application Publications); and
- 4) Acknowledgment Postcard.

No additional costs are believed to be due in connection with the filing of this disclosure. However, please charge any necessary fees to our Deposit Account No. 50-1133.

Respectfully submitted,

Date: 2 FEBRUARY 2004

  
Brian J. Colandreo, Reg. No. 42,427  
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**INFORMATION DISCLOSURE STATEMENT**

In accordance with 37 C.F.R. §1.56, §1.97 and §1.98, Applicants hereby submit an information disclosure statement with information cited on the attached PTO-1449 form.

According to the United States Patent and Trademark Office OG Notices: 05 August 2003, since the above-identified patent application was filed after June 30, 2003, copies of cited U.S. patents and U.S. patent application publications are waived and are not submitted with this Statement.

Copies of cited foreign patent documents and non-patent literature are enclosed herewith.

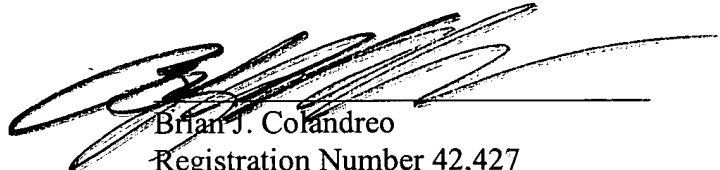
This Statement is being filed within three months after the filing date of the application.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicant understands that the Examiner will make an independent evaluation of the cited publications.

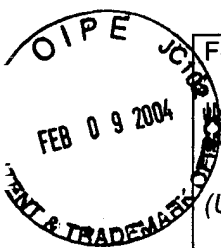
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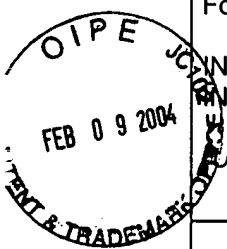
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| Form PTO-1449  |     |  |         | Docket Number (Optional)<br>57581-037<br>(SHOL-123) |       | Application Number<br>10/726,952 |                               |    |
| INFORMATION DISCLOSURE CITATION<br>ON AN APPLICATION<br><br>(Use several sheets if necessary)  |     |  |         | Applicant<br><br>Roy Schoenberg                     |       |                                  |                               |    |
|  |     |  |         | Filing Date<br>12/3/2003                            |       | Group Art Unit                   |                               |    |
| U. S. Patent Documents   |     |  |         |   |       |                                  |                               |    |
| EXAMINER<br>INITIAL  | REF | DOCUMENT<br>NUMBER   | DATE    | NAME  | CLASS | SUBCLASS                         | FILING DATE<br>IF APPROPRIATE |    |
|  |     | 5,805,719  | 09/1998 | Pare, Jr. et al.                                    | 382   | 115                              | 03/1997                       |    |
|  |     | 5,704,044  | 12/1997 | Tarter et al.                                       | 395   | 204                              | 07/1996                       |    |
|  |     | 4,882,474  | 11/1989 | Anderi et al.                                       | 235   | 380                              | 02/1988                       |    |
|  |     | 6,076,166  | 06/2000 | Moshfeghi, et al.                                   | 713   | 201                              | 01/1997                       |    |
|  |     | 6,463,417  | 10/2002 | Schoenberg  | 705   | 2                                | 04/2000                       |    |
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| FOREIGN PATENT DOCUMENTS   |     |  |         |   |       |                                  |                               |    |
|  | REF | DOCUMENT<br>NUMBER   | DATE    | COUNTRY   | CLASS | SUBCLASS                         | Translation                   |    |
|  | B1  | WO01/26020 A1  | 04/2001 | PCT   |       |                                  | YES                           | NO |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |     |  |         |   |       |                                  |                               |    |
|  | C1  | Annas, G., "A National Bill of Patient's Rights", NEJM, 338, P.695-699, 03/05/1998   |         |   |       |                                  |                               |    |
|  | C2  | Bakker, A., "Security in Perspective; Luxury or Must?", Int. J. Med. Inf., 49, P.31-37, 1998   |         |   |       |                                  |                               |    |
|  | C3  | Baker, D., "PCASSO: Providing Secure Internet Access to Patient Information", www.saic.com   |         |   |       |                                  |                               |    |
|  | C4  | Barrows, R. Jr. et al., "Privacy, Confidentiality, and Electronic Medical Records", J. Amer. Med. Inf. Assoc., 3, P. 139-148, 03/1996                              |         |   |       |                                  |                               |    |
|  | C5  | Cimino, J. et al., "Architecture for a Web-Based Clinical Information System that Keeps the Design Open and the Access Closed", Proc. AMIA Symp., P. 121-125, 1998 |         |   |       |                                  |                               |    |
|  | C6  | Dudeck, J., "Aspects of Implementing and Harmonizing Healthcare Communication Standards", Int. J. Med. Inf., 48, P.163-171, 02/1998                                |         |   |       |                                  |                               |    |
| EXAMINER   |     |  |         | DATE CONSIDERED                                     |       |                                  |                               |    |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy with next communication to applicant. |     |  |         |   |       |                                  |                               |    |



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| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(Use several sheets if necessary)  |     |   |      | Applicant<br>Roy Schoenberg                         |       |                                  |                               |    |
|  |     |   |      | Filing Date<br>12/3/2003                            |       | Group Art Unit                   |                               |    |
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| FOREIGN PATENT DOCUMENTS   |     |   |      |   |       |                                  |                               |    |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |     |   |      |   |       |                                  |                               |    |
|  | C7  | Epstein, M. et al., "Security for the Digital Information Age of Medicine: Issues, Applications, and Implementation", J. Digit Imaging, 11, P. 33-44, 02/1998 |      |   |       |                                  |                               |    |
|  | C8  | Espinosa, A., "Availability of Health Data: Requirements and Solutions", Int. J. Med. Inf., 49, P. 97-104, 03/1998  |      |   |       |                                  |                               |    |
|  | C9  | Gibby, G. et al., "Availability of Records in An Outpatient Preanesthetic Evaluation Clinic", J. Clin. Mon. & Computing, 14, P. 385-391, 08/1998              |      |   |       |                                  |                               |    |
|  | C10 | Kuילboer, M. et al., "The Availability of Unavailable Information", AMIA Annual Fall Symp., P. 749-753, 1997  |      |   |       |                                  |                               |    |
|  | C11 | Leape, L., "Error In Medicine", JAMA, 272, P. 1851-1857, 12/21/1994   |      |   |       |                                  |                               |    |
|  | C12 | Leape, L. et al., "Promoting Patient Safety By Preventing Medical Error", JAMA, 280, P. 1444-1447, 10/28/1998   |      |   |       |                                  |                               |    |
| EXAMINER   |     |   |      | DATE CONSIDERED                                     |       |                                  |                               |    |
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|   |  | Filing Date<br>12/3/2003                            | Group Art Unit                   |

**U. S. Patent Documents**

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**FOREIGN PATENT DOCUMENTS**

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|-----|--------------------|------|---------|-------|----------|-------------|----|
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|     |   |
|-----|---|
| C13 | Luxenberg, S. et al., "Electronic Forms: Benefits and Drawbacks of A World Wide Web-Based Approach to Data Entry", Proc. AMIA Annual Fall Symp., P. 804-808, 1997                               |
| C14 | Mandl, K. et al., "Electronic Patient-Physician Communication: Problems and Promise", Ann. Intern. Med., 129, P.495-500, 09/15/1998   |
| C15 | Masys, D. et al., "Patient-Centered Access to Secure Systems Online (PCASSO): A Secure Approach to Clinical Data Access Via the World Wide Web", Proc. AMIA Annual Fall Symp., P. 340-343, 1997 |
| C16 | Auston, I. Et al., "Confidentiality of Electronic Health Data: Methods for Protecting Personally Identifiable Information", National Library of Medicine, CBM 95-100, 03/1996                   |
| C17 | Neame, R., "Smart Cards – The Key to Trustworthy Health Information Systems", BMJ, 314, P. 573-577, 02/22/1997  |
| C18 | Rind, D. et al., "Maintaining the Confidentiality of Medical Records Shared Over the Internet and the World Wide Web", Ann. Intern. Med., 127, P. 138-141, 07/15/1997                           |

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|  | Applicant<br>Roy Schoenberg                         |                                  |
|  | Filing Date<br>12/3/2003                            | Group Art Unit                   |

**U. S. Patent Documents**

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|     |   |
|-----|---|
| C19 | Schoenberg, R. et al., "Internet Based Repository of Medical Records that Retains Patient Confidentiality", BMJ, 321, P. 1199-1203, 11/11/2000                  |
| C20 | Slack, W. et al., "The CCC System in Two Teaching Hospitals: A Progress Report", Int. J. Med. Inf., 54, P. 183-196, 09/1999                                     |
| C21 | Stanberry, B., "The Legal and Ethical Aspects of Telemedicine 1: Confidentiality and the Patient's Rights of Access", J. Telemed. Telecare, 3, P. 179-187, 1997 |
| C22 | Toyada, K., "Standardization and Security for the EMR", Int. J. Med. Inf., 48, P. 57-60, 02/1998  |
| C23 | Woodward, B., "The Computer-Based Patient Record and Confidentiality", NEJM, 333, P. 1419-1422, 11/23/1995  |
| C24 | Bell Atlantic and EMX Team Up to Provide Doctors Instant Online Access to Medical Data, PR Newswire, 2/23/1999  |

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